

## EAST Search History

|     |     |  |                              |    |    |                  |
|-----|-----|--|------------------------------|----|----|------------------|
| L11 | 14  | ("20020043709"   "20030011059"   "20030102546"   "5920118"   "5998860"   "6144102"   "6190943"   "6218731"   "6426875"   "6512303"   "6515355"   "6528722"   "6620648"   "6686656").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L12 | 11  | ("4499655"   "4774632"   "4807021"   "5229647"   "5270261"   "5399898"   "5408123"   "5618752"   "5793105"   "5846879"   "5973396").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L13 | 177 | ("4545610").PN. OR ("4807021").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L14 | 11  | ("4807021"   "5523185"   "5841192"   "5872338"   "6020217"   "6144576"   "6165885"   "6181569").PN. OR ("6400574").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L15 | 39  | ("5216278"   "5293072"   "5293092"   "5557150"   "5612576").PN. OR ("5841192").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L16 | 17  | ("3760384"   "4426773"   "4864722"   "5541368"   "5612576"   "5615477"   "5710071"   "5756380"   "5808873"   "5811883"   "5841192"   "5990545"   "5990547"   "6002178"   "6246015"   "6602734"   "RE36773").PN. OR ("6861764").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L17 | 51  | ("3436603"   "4807021"   "4867235"   "4933810"   "4953060"   "4991000"   "5060844"   "5099309"   "5128831"   "5130894"   "5172303"   "5222014"   "5241133"   "5241450"   "5241456"   "5247423"   "5299094"   "5307240"   "5313366"   "5376825"   "5391917"   "5394010"   "5394300"   "5397917"   "5412538"   "5421081"   "5422435"   "5454160"   "5579207"   "5615089"   "5633783"   "5642265"   "5739581"   "5783870"   "5798564"   "5920117").PN. OR ("6101100").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L18 | 93  | ("3379937"   "4288841"   "4437718"   "4617730"   "4654694"   "4691225"   "4940181"   "4969827"   "5016138").PN. OR ("5172303").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L19 | 38  | ("5006922"   "5102829"   "5172303"   "5200366"   "5291062"   "5334857"   "5433822"   "5455456"   "5468999"   "5608265").PN. OR ("5726493").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L20 | 13  | ("5726493"   "6239496"   "6303997"   "6329915"   "6348728").PN. OR ("6489676").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |

## EAST Search History

|     |      |  |                              |    |     |                  |
|-----|------|--|------------------------------|----|-----|------------------|
| L21 | 95   | ("5677566"   "5895965"   "5945741"   "5952611"   "6049129"   "6078097").PN. OR ("6303997").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L22 | 9    | ("5200809"   "5726493"   "5886408"   "6239496"   "6303997"   "6329915"   "6331450"   "6348728"   "6613606").PN. OR ("6812066").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L23 | 55   | ("3179913"   "3370203"   "3459998"   "3904934"   "4288841"   "4502098"   "4574331"   "4646128"   "4727410"   "4823233"   "4833568"   "4862249"   "4868712"   "4953005"   "5016138"   "5019945"   "5739585").PN. OR ("6049129").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L24 | 66   | ("5045914"   "5045921").PN. OR ("5608265").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L25 | 66   | ("5045914"   "5045921").PN. OR ("5608265").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L26 | 64   | ("5608265").URPN.  | USPAT                        | OR | ON  | 2006/08/09 15:46 |
| L27 | 2    | ("5045914"   "5045921").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L28 | 64   | ("5608265").URPN.  | USPAT                        | OR | ON  | 2006/08/09 15:46 |
| L29 | 93   | ("3379937"   "4288841"   "4437718"   "4617730"   "4654694"   "4691225"   "4940181"   "4969827"   "5016138").PN. OR ("5172303").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L30 | 10   | ("5043794"   "5172303"   "5214308"   "5241133"   "5247423"   "5375041"   "5640048"   "5747874"   "5767528"   "5838060").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L31 | 1310 | (257/686).CCLS.  | USPAT                        | OR | OFF | 2006/08/09 15:46 |
| L32 | 345  | L6 and L31   | USPAT                        | OR | ON  | 2006/08/09 15:46 |
| L33 | 171  | L32 and bump   | USPAT                        | OR | ON  | 2006/08/09 15:46 |
| L34 | 8    | ("5677569"   "5910685"   "5939789"   "5973403"   "6020629"   "6097081"   "6107679"   "6181002").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L35 | 144  | andujar.xa.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |
| L36 | 17   | ("4887148"   "5475040"   "5583378"   "5633535"   "5767447"   "5786631"   "5834337"   "5843810"   "5891755"   "5907189"   "5910010"   "5930893"   "6011304"   "6175157"   "6215180"   "6218202"   "6410988").PN. OR ("6794749").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 15:46 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| L37 | 7   | ("3648131"   "3761782"   "5122856"   "6187615").PN. OR ("6693358").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L38 | 4   | ("5151771"   "5172303"   "5739581"   "5963430").PN. OR ("6674160").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L39 | 5   | ("5397921"   "5409865"   "5646828"   "6163458"   "6287893").PN. OR ("6650015").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L40 | 6   | ("5640047"   "5641701"   "6054767"   "6303878").PN. OR ("6646349").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L41 | 31  | andujar.xp.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L42 | 657 | (257/685).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |
| L43 | 125 | L42 and bga  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L44 | 40  | ("4371912"   "4638348"   "4761681"   "4841355"   "4868712"   "4956694"   "5012323"   "5128831"   "5231304"   "5239447"   "5266912"   "5299092"   "5311401"   "5313096"   "5373189"   "5384689"   "5400003"   "5616958"   "5625221"   "5637536"   "5639695"   "5639696"   "5642261"   "5648679"   "5668405"   "5675180"   "5677566"   "5804874"   "5815372"   "5835988"   "5844315"   "5883426"   "5903049"   "5994166"   "6028365"   "6072233"   "6268649"   "6331939"   "6455928").PN. OR ("6670702").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L45 | 43  | ("4656605"   "4684184"   "4696525"   "4727513"   "4833568"   "4850892"   "4868712"   "4953060"   "5241450"   "5330359"   "5376825"   "5380681"   "5383269"   "5426563"   "5429511"   "5445526"   "5455740"   "5481133"   "5502667"   "5512783"   "5543660"   "5586009"   "5612570"   "5619067"   "5666272"   "5726493"   "5734555"   "5821625"   "5963430").PN. OR ("6093029").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| L46 | 1   | L42 and pad with (molding with encapsulant)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/09 15:46 |
| L47 | 56  | L42 and pad with (molding encapsulant)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/09 15:46 |
| L48 | 11  | ("5222014"   "6057598"   "6133637"<br>  "6225688"   "6268654"   "6329224"<br>  "6376914"   "6643136"  <br>"6677674").PN. OR ("6815254").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L49 | 42  | ("4945399"   "4956694"   "5198888"<br>  "5237204"   "5266912"  <br>"5448106").PN. OR ("5656856").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L50 | 152 | ("3214827"   "3775844"   "4225900"<br>  "4941033"   "4982265"   "5046238"<br>  "5138438"   "5148265"   "5148266"<br>  "5172303"   "5198888"   "5222014"<br>  "5247423"   "5281852"   "5334875"<br>  "5347159"   "5390844"   "5397916"<br>  "5398863"   "5422435"   "5426563"<br>  "5440171"   "5454160"   "5455740"<br>  "5479319"   "5489749"   "5491302"<br>  "5543664"   "5656856").PN. OR<br>("5861666").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |

## EAST Search History

|     |     |  |                              |    |    |                  |
|-----|-----|--|------------------------------|----|----|------------------|
| L51 | 88  | ("3851221"   "4530152"   "4567643"<br>  "4707724"   "4730232"   "4756080"<br>  "4763188"   "4982265"   "4996587"<br>  "5012323"   "5025306"   "5040052"<br>  "5138438"   "5140404"   "5157480"<br>  "5165067"   "5198888"   "5200362"<br>  "5229647"   "5273938"   "5291061"<br>  "5323060"   "5334875"   "5347429"<br>  "5422435"   "5426563"   "5432729"<br>  "5463253"   "5473196"   "5474958"<br>  "5495394"   "5495398"   "5502289"<br>  "5514907"   "5569625"   "5581498"<br>  "5587341"   "5604376"   "5614766"<br>  "5620928"   "5637536"   "5637912"<br>  "5682062"   "5689135"   "5696031"<br>  "5696666"   "5715147"   "5721452"<br>  "5739581"   "5763939"   "5783870"<br>  "5793108"   "5798014"   "5815372"<br>  "5835355"   "5859471"   "5861666"<br>  "5872025"   "5885849"   "5886412"<br>  "5894108"   "5903052"   "5917242"<br>  "5952611"   "5973403"   "6005778"<br>  "6013948"   "6034423"   "6034427"<br>  "6051886"   "6057598"   "6072243"<br>  "6080264"   "6097089"   "6127833"<br>  "6133637"   "6172419"   "6180881"<br>  "6184463"   "6214641"   "6235554"<br>  "6313522"   "6396143"   "6501184"<br>  "RE36613").PN. OR ("6762078").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L52 | 49  | ("4300153"   "4949158"   "4982265"<br>  "4996583"   "5028986"  <br>"5198888").PN. OR ("5334875").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L53 | 54  | ("3851221"   "4103318"   "4361261"<br>  "4444349"   "4586642"   "4730232"<br>  "4763188"   "4982265"   "5012323"<br>  "5025306"   "5040052"   "5140404"<br>  "5168368"   "5172215"   "5176311"<br>  "5177032"   "5291060"   "5291061"<br>  "5323060"   "5334875"   "5384689"<br>  "5432729"   "5495398"   "5498901"<br>  "5502289"   "5620928"   "5682062"<br>  "5714405"   "5715147"   "5721452"<br>  "5739581"   "5804874"   "5815372"<br>  "5872025"   "5886412"   "5989982"<br>  "6005778"   "6013948"   "6030855"<br>  "6033931"   "6051886"   "6057598"<br>  "RE36613").PN. OR ("6531784").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L54 | 133 | ("4460825"   "4530152"   "4635356"<br>  "4830264"   "4961105"  <br>"5122860").PN. OR ("5273938").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L55 | 127 | ("5273938").URPN.  | USPAT                        | OR | ON | 2006/08/09 15:46 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| L56 | 6    | ("4460825"   "4530152"   "4635356"   "4830264"   "4961105"   "5122860").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L57 | 133  | ("4460825"   "4530152"   "4635356"   "4830264"   "4961105"   "5122860").PN. OR ("5273938").URPN.                                     | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L58 | 2617 | (257/774).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |
| L59 | 262  | L58 and SiN  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L60 | 150  | L58 and SiN  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L61 | 53   | L58 and (silicon near2 nitride SiN)with sidewall   | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L62 | 3    | ("5815226" "5998814" "6414393").PN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L63 | 1    | ("6107687").PN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L64 | 144  | andujar.xa.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L65 | 9    | ("5200809"   "5726493"   "5886408"   "6239496"   "6303997"   "6329915"   "6331450"   "6348728"   "6613606").PN. OR ("6812066").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L66 | 66   | ("5045914"   "5045921").PN. OR ("5608265").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L67 | 2    | "5,422,435".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L68 | 66   | ("5045914"   "5045921").PN. OR ("5608265").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L69 | 66   | ("5045914"   "5045921").PN. OR ("5608265").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| L70 | 17    | ("3760384"   "4426773"   "4864722"<br>  "5541368"   "5612576"   "5615477"<br>  "5710071"   "5756380"   "5808873"<br>  "5811883"   "5841192"   "5990545"<br>  "5990547"   "6002178"   "6246015"<br>  "6602734"   "RE36773").PN. OR<br>("6861764").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L71 | 93    | ("3379937"   "4288841"   "4437718"<br>  "4617730"   "4654694"   "4691225"<br>  "4940181"   "4969827"<br>"5016138").PN. OR ("5172303").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L72 | 13    | ("5726493"   "6239496"   "6303997"<br>  "6329915"   "6348728").PN. OR<br>("6489676").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L73 | 9     | ("5200809"   "5726493"   "5886408"<br>  "6239496"   "6303997"   "6329915"<br>  "6331450"   "6348728"<br>"6613606").PN. OR ("6812066").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L74 | 2     | ("5045914"   "5045921").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L75 | 64    | ("5608265").URPN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L76 | 64    | ("5608265").URPN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L77 | 11    | ("4807021"   "5523185"   "5841192"<br>  "5872338"   "6020217"   "6144576"<br>  "6165885"   "6181569").PN. OR<br>("6400574").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L78 | 6     | ("4460825"   "4530152"   "4635356"<br>  "4830264"   "4961105"<br>"5122860").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L79 | 2617  | (257/774).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |
| L80 | 11481 | 257/78\$1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L81 | 5927  | 257/79\$1.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |

## EAST Search History

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| L82 | 93     | ("3379937"   "4288841"   "4437718"<br>  "4617730"   "4654694"   "4691225"<br>  "4940181"   "4969827"<br>"5016138").PN. OR ("5172303").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L83 | 8      | ("5677569"   "5910685"   "5939789"<br>  "5973403"   "6020629"   "6097081"<br>  "6107679"   "6181002").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L84 | 17     | ("4887148"   "5475040"   "5583378"<br>  "5633535"   "5767447"   "5786631"<br>  "5834337"   "5843810"   "5891755"<br>  "5907189"   "5910010"   "5930893"<br>  "6011304"   "6175157"   "6215180"<br>  "6218202"   "6410988").PN. OR<br>("6794749").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L85 | 7      | ("3648131"   "3761782"   "5122856"<br>  "6187615").PN. OR ("6693358").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L86 | 42     | ("4945399"   "4956694"   "5198888"<br>  "5237204"   "5266912"  <br>"5448106").PN. OR ("5656856").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L87 | 31     | andujar.xp.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L88 | 39     | ("5216278"   "5293072"   "5293092"<br>  "5557150"   "5612576").PN. OR<br>("5841192").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L89 | 1626   | (438/108).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |
| L90 | 278433 | "257"/(787-796).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L91 | 4      | ("5151771"   "5172303"   "5739581"<br>  "5963430").PN. OR ("6674160").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L92 | 1523   | (257/723).CCLS.  | USPAT   | OR | OFF | 2006/08/09 15:46 |
| L93 | 55     | ("3179913"   "3370203"   "3459998"<br>  "3904934"   "4288841"   "4502098"<br>  "4574331"   "4646128"   "4727410"<br>  "4823233"   "4833568"   "4862249"<br>  "4868712"   "4953005"   "5016138"<br>  "5019945"   "5739585").PN. OR<br>("6049129").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |



## EAST Search History

|      |       |  |   |    |     |                  |
|------|-------|--|---|----|-----|------------------|
| L94  | 5     | ("5397921"   "5409865"   "5646828"   "6163458"   "6287893").PN. OR ("6650015").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L95  | 657   | (257/685).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |
| L96  | 1     | L95 and pad with (molding with encapsulant)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L97  | 1     | ("6107687").PN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L98  | 95    | ("5677566"   "5895965"   "5945741"   "5952611"   "6049129"   "6078097").PN. OR ("6303997").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L99  | 6     | ("5640047"   "5641701"   "6054767"   "6303878").PN. OR ("6646349").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L100 | 51    | ("3436603"   "4807021"   "4867235"   "4933810"   "4953060"   "4991000"   "5060844"   "5099309"   "5128831"   "5130894"   "5172303"   "5222014"   "5241133"   "5241450"   "5241456"   "5247423"   "5299094"   "5307240"   "5313366"   "5376825"   "5391917"   "5394010"   "5394300"   "5397917"   "5412538"   "5421081"   "5422435"   "5454160"   "5579207"   "5615089"   "5633783"   "5642265"   "5739581"   "5783870"   "5798564"   "5920117").PN. OR ("6101100").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L101 | 10    | ("5043794"   "5172303"   "5214308"   "5241133"   "5247423"   "5375041"   "5640048"   "5747874"   "5767528"   "5838060").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L102 | 16304 | L80 or L81   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L103 | 2407  | (257/723).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 15:46 |

## EAST Search History

|      |     |  |   |    |    |                  |
|------|-----|--|---|----|----|------------------|
| L104 | 38  | ("5006922"   "5102829"   "5172303"<br>  "5200366"   "5291062"   "5334857"<br>  "5433822"   "5455456"   "5468999"<br>  "5608265").PN. OR ("5726493").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L105 | 133 | ("4460825"   "4530152"   "4635356"<br>  "4830264"   "4961105"  <br>"5122860").PN. OR ("5273938").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L106 | 127 | ("5273938").URPN.  | USPAT   | OR | ON | 2006/08/09 15:46 |
| L107 | 262 | L79 and SiN  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/09 15:46 |
| L108 | 144 | andujar.xa.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/09 15:46 |
| L109 | 14  | ("20020043709"   "20030011059"  <br>"20030102546"   "5920118"  <br>"5998860"   "6144102"   "6190943"  <br>"6218731"   "6426875"   "6512303"  <br>"6515355"   "6528722"   "6620648"  <br>"6686656").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L110 | 11  | ("4499655"   "4774632"   "4807021"<br>  "5229647"   "5270261"   "5399898"<br>  "5408123"   "5618752"   "5793105"<br>  "5846879"   "5973396").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L111 | 43  | ("4656605"   "4684184"   "4696525"<br>  "4727513"   "4833568"   "4850892"<br>  "4868712"   "4953060"   "5241450"<br>  "5330359"   "5376825"   "5380681"<br>  "5383269"   "5426563"   "5429511"<br>  "5445526"   "5455740"   "5481133"<br>  "5502667"   "5512783"   "5543660"<br>  "5586009"   "5612570"   "5619067"<br>  "5666272"   "5726493"   "5734555"<br>  "5821625"   "5963430").PN. OR<br>("6093029").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/09 15:46 |
| L112 | 56  | L95 and pad with (molding<br>encapsulant)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/09 15:46 |

## EAST Search History

|      |    |  |                              |    |    |                  |
|------|----|--|------------------------------|----|----|------------------|
| L113 | 40 | ("4371912"   "4638348"   "4761681"<br>  "4841355"   "4868712"   "4956694"<br>  "5012323"   "5128831"   "5231304"<br>  "5239447"   "5266912"   "5299092"<br>  "5311401"   "5313096"   "5373189"<br>  "5384689"   "5400003"   "5616958"<br>  "5625221"   "5637536"   "5639695"<br>  "5639696"   "5642261"   "5648679"<br>  "5668405"   "5675180"   "5677566"<br>  "5804874"   "5815372"   "5835988"<br>  "5844315"   "5883426"   "5903049"<br>  "5994166"   "6028365"   "6072233"<br>  "6268649"   "6331939"  <br>"6455928").PN. OR ("6670702").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L114 | 11 | ("5222014"   "6057598"   "6133637"<br>  "6225688"   "6268654"   "6329224"<br>  "6376914"   "6643136"  <br>"6677674").PN. OR ("6815254").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L115 | 88 | ("3851221"   "4530152"   "4567643"<br>  "4707724"   "4730232"   "4756080"<br>  "4763188"   "4982265"   "4996587"<br>  "5012323"   "5025306"   "5040052"<br>  "5138438"   "5140404"   "5157480"<br>  "5165067"   "5198888"   "5200362"<br>  "5229647"   "5273938"   "5291061"<br>  "5323060"   "5334875"   "5347429"<br>  "5422435"   "5426563"   "5432729"<br>  "5463253"   "5473196"   "5474958"<br>  "5495394"   "5495398"   "5502289"<br>  "5514907"   "5569625"   "5581498"<br>  "5587341"   "5604376"   "5614766"<br>  "5620928"   "5637536"   "5637912"<br>  "5682062"   "5689135"   "5696031"<br>  "5696666"   "5715147"   "5721452"<br>  "5739581"   "5763939"   "5783870"<br>  "5793108"   "5798014"   "5815372"<br>  "5835355"   "5859471"   "5861666"<br>  "5872025"   "5885849"   "5886412"<br>  "5894108"   "5903052"   "5917242"<br>  "5952611"   "5973403"   "6005778"<br>  "6013948"   "6034423"   "6034427"<br>  "6051886"   "6057598"   "6072243"<br>  "6080264"   "6097089"   "6127833"<br>  "6133637"   "6172419"   "6180881"<br>  "6184463"   "6214641"   "6235554"<br>  "6313522"   "6396143"   "6501184"<br>  "RE36613").PN. OR ("6762078").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L116 | 49 | ("4300153"   "4949158"   "4982265"<br>  "4996583"   "5028986"  <br>"5198888").PN. OR ("5334875").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/09 15:46 |
| L117 | 53 | L79 and (silicon near2 nitride<br>SiN)with sidewall  | USPAT                        | OR | ON | 2006/08/09 15:46 |

## EAST Search History

|      |      |  |   |    |     |                  |
|------|------|--|---|----|-----|------------------|
| L118 | 54   | ("3851221"   "4103318"   "4361261"<br>  "4444349"   "4586642"   "4730232"<br>  "4763188"   "4982265"   "5012323"<br>  "5025306"   "5040052"   "5140404"<br>  "5168368"   "5172215"   "5176311"<br>  "5177032"   "5291060"   "5291061"<br>  "5323060"   "5334875"   "5384689"<br>  "5432729"   "5495398"   "5498901"<br>  "5502289"   "5620928"   "5682062"<br>  "5714405"   "5715147"   "5721452"<br>  "5739581"   "5804874"   "5815372"<br>  "5872025"   "5886412"   "5989982"<br>  "6005778"   "6013948"   "6030855"<br>  "6033931"   "6051886"   "6057598"<br>  "RE36613").PN. OR ("6531784").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L119 | 3    | ("5815226"   "5998814"   "6414393").<br>PN.  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L120 | 9    | ("5200809"   "5726493"   "5886408"<br>  "6239496"   "6303997"   "6329915"<br>  "6331450"   "6348728"<br>  "6613606").PN. OR ("6812066").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L121 | 66   | ("5045914"   "5045921").PN. OR<br>("5608265").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L122 | 177  | ("4545610").PN. OR ("4807021").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L123 | 1310 | (257/686).CCLS.  | USPAT   | OR | OFF | 2006/08/09 15:46 |
| L124 | 2    | "5,422,435".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L125 | 345  | L102 and L123  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L126 | 171  | L125 and bump  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L127 | 144  | andujar.xa.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L128 | 125  | L95 and bga  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |

## EAST Search History

|      |      |  |   |    |     |                  |
|------|------|--|---|----|-----|------------------|
| L129 | 152  | ("3214827"   "3775844"   "4225900"<br>  "4941033"   "4982265"   "5046238"<br>  "5138438"   "5148265"   "5148266"<br>  "5172303"   "5198888"   "5222014"<br>  "5247423"   "5281852"   "5334875"<br>  "5347159"   "5390844"   "5397916"<br>  "5398863"   "5422435"   "5426563"<br>  "5440171"   "5454160"   "5455740"<br>  "5479319"   "5489749"   "5491302"<br>  "5543664"   "5656856").PN. OR<br>("5861666").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L130 | 133  | ("4460825"   "4530152"   "4635356"<br>  "4830264"   "4961105"  <br>"5122860").PN. OR ("5273938").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/08/09 15:46 |
| L131 | 150  | L79 and SiN  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L132 | 417  | L102 and L103  | USPAT   | OR | ON  | 2006/08/09 15:46 |
| L133 | 510  | L102 and L103  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L134 | 688  | L89 and (mold\$3 encapsulant<br>ecapsulat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/08/09 15:46 |
| L137 | 1223 | (313/512).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/08/09 16:19 |
| L145 | 1    | (dummy and interconnect\$3 and<br>tensile).clm.  | US-PGPUB  | OR | ON  | 2006/08/09 16:20 |
| L146 | 123  | ((IC integrated adj circuit<br>semiconductor die chip silicon) and<br>(wiring trace routing interconnect\$3)<br>and tensile).clm.  | US-PGPUB  | OR | ON  | 2006/08/09 16:22 |